

HVAC

HVAC vendors quickly learned that using IT Temperature Monitor as a monitoring tool could predict faults and eliminate failures. Savings are realized by allowing the HVAC service company to dispatch the technician and the van with the appropriate resources to address the customers needs. Applications alert persons, phones, PDA's, pagers, network management applications or alarm companies when something occurs out of the norm. HVAC contractors are customers of the web-based EMS (Environmental Management Software) application...as the EMS software allows the HVAC contractor to examine the IT Temperature Monitor data files remotely on a web page. They can then determine which type of technician and which van will most likely contain the parts necessary to effect a cure in the shortest period of time.

Monitoring temperatures in this environment typically involves the following:

- Monitoring a compressor
- Monitoring the Condenser Temperature
- Monitoring Air Handler Temperatures
- Monitoring Temperature Flow Through Filter Locations
- Monitor Ambient Outdoor Temperatures
- Monitoring Adjacent Room Temperatures

Purchase Justification:

1. Cost avoidance
 - HVAC contractors use IT Temperature Monitors to monitor customer locations and the contractors use the data to dispatch the appropriate service person for preventative maintenance or repair.
2. Reliability or up time
 - HVAC Contractors keep their customer sites operational by being able to analyze trends and prevent failures.
3. Predictability
 - HVAC Contractors predict situations such as low gas or slipping belts without having to make a service call.
4. Preventative measures
 - Sending the correct van and the correct technician to the customer's site saves money and pleases the customer... especially when it occurs before the customer is aware of a fault.

Typical installation:

Multiple IT Temperature Monitor E4's, Approx \$1000, 4 or more probes
Multiple IT Temperature Monitor E8's, Approx \$1500, 16 or more probes

Note: Many HVAC Installations use the heavy duty probes as the attendant wiring is often in close proximity to very noisy AC motors and other high RFI output devices in rooftop equipment enclosures. The Sensatronics heavy duty probes are PVC-jacketed and shielded making them ideal for this environment.

Installation Time: Typical installation time is less than 2 hours, including the placement of probes.

Software selections:

Windows	Web	Linux
IP Sentry (http://www.ipsentry.com)	EMS (http://www.sensatronics.com/ems)	Nagios (http://www.nagios.org)
Tempelert (http://www.tempelert.com)	Dotcom-Monitor (http://www.dotcom-monitor.com)	Big Brother (http://www.bb4.com)
Big Brother (http://www.bb4.com)		
Intellipool Network Monitor (http://www.intellipool.com)		

Typical Customers:

Typical customers are HVAC contractors who wish to distinguish their offerings from those of their competitors. The IT Temperature Monitor and the Sensatronics applications allow the HVAC contractor to monitor the customer's installation. The HVAC contractor is established as the primary contact for any alerts and can notify the end user. If there are any unusual trends or any alerts indicating that service or repair may be necessary or eminent, the HVAC Contractor is highly responsive.